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**POWER OF ATTORNEY  
OR  
REVOCATION OF POWER OF ATTORNEY  
WITH A NEW POWER OF ATTORNEY  
AND  
CHANGE OF CORRESPONDENCE ADDRESS**

Application Number	Attached
Filing Date	
First Named Inventor	
Title	
Art Unit	
Examiner Name	
Attorney Docket Number	

I hereby revoke all previous powers of attorney given in the above-identified application.

A Power of Attorney is submitted herewith.

OR

I hereby appoint Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith:

73658

OR

I hereby appoint Practitioner(s) named below as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith:

Practitioner(s) Name	Registration Number

Please recognize or change the correspondence address for the above-identified application to:

The address associated with the above-mentioned Customer Number.

OR

The address associated with Customer Number:

OR

Firm or Individual Name:

Address: City: State: Zip: Country: Telephone: Email: 

I am the:

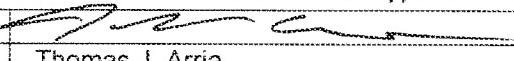
Applicant/Inventor.

OR

Assignee of record of the entire interest. See 37 CFR 3.71.

Statement under 37 CFR 3.73(b) (Form PTO/SB/96) submitted herewith or filed on \_\_\_\_\_.

**SIGNATURE of Applicant or Assignee of Record**

Signature: 	Date: <span style="border: 1px solid black; display: inline-block; width: 50px; height: 1.2em; vertical-align: middle;"></span>	5/24/12
Name: Thomas J. Arria	Telephone: <span style="border: 1px solid black; display: inline-block; width: 50px; height: 1.2em; vertical-align: middle;"></span>	781-219-8760
Title and Company: Sr. IP Specialist, Patenting		

**NOTE:** Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below\*.

\*Total of \_\_\_\_\_ forms are submitted.

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

# NOKIA

## LIMITED POWER OF ATTORNEY

that we, the undersigned, under the authority granted to each of us to sign jointly on behalf of

NOKIA CORPORATION  
Keilalahdentie 4  
02150 Espoo  
Finland

hereby authorize the following person

Thomas Arria  
Nokia Corporation  
5 Wayside Road  
01803 Burlington  
U.S.A.

Nokia Corporation  
P.O. Box 226,  
FI-00045 NOKIA GROUP, Finland  
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Business Identity Code  
0112838-9, Helsinki

In his capacity as Senior IP Specialist, Patenting, to sign alone in the name of Nokia Corporation all the documents that relate to the filing, prosecution and registration of patent applications, as well as post-grant operations relating to patents granted based on such patent applications. Such documents may include without limitation Assignment Deeds for assigning the ownership of an invention to Nokia, Novelty Declarations and Inventorship Declarations.

The rights granted under this Power of Attorney may not be transferred further.

The authority granted by this Power of Attorney shall expire six (6) months from the date of execution.

Notwithstanding the foregoing, the authority granted by this Power of Attorney shall expire when the authorized person's employment with Nokia ends.

This Power of Attorney is duly signed on this day of January 1, 2012.

NOKIA CORPORATION

By:   
Name: Harri Honkasalo  
Title: Director,  
Legal and Intellectual Property

By:   
Name: Paul Melin  
Title: Vice President,  
Legal and Intellectual Property

**Statement Under 37 C.F.R. 3.73(b)**

Owner: **Nokia Corporation**

Application Nos.: See Attached

Nokia Corporation \_\_\_\_\_ a corporation \_\_\_\_\_  
(Type of Assignee) (Name of Assignee)

states that it is:

the assignee of the entire right, title and interest in:

the patent applications **identified on the attached list** by virtue of assignment( s) from  
the inventor(s) of the patent application(s).

The assignments were recorded in the United States Patent and Trademark Office on the  
Reel and Frame numbers listed on the attached list.

The undersigned is authorized to act on behalf of the assignee.

Signature: 

Date: 5/24/12

Name: Thomas J. Arria  
Title: Sr. IP Specialist, Patenting

Registration No.: 60,223

<b>Application No.:</b>	<b>Filing Date</b>	<b>Confirmation No.:</b>	<b>Assignment: Reel/Frame</b>
09/692794 (Pat. No. 6731939)	10/20/2000	6380	011270/0210
09/474215 (Pat. No. 6741658)	12/29/1999	2004	010894/0417
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09/916697 (Pat. No. 6775533)	07/27/2001	9273	012190/0802
09/752425 (Pat. No. 6823186)	12/28/2000	9882	011679/0009
09/733097 (Pat. No. 6829288)	12/11/2000	3505	011758/0347
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09/558974 (Pat. No. 7006447)	04/27/2000	1855	017389/0597
09/619660 (Pat. No. 7006576)	07/19/2000	2158	017389/0597
10/331172 (Pat. No. 7016657)	12/27/2002	1790	013369/0569